

FIG. 1A

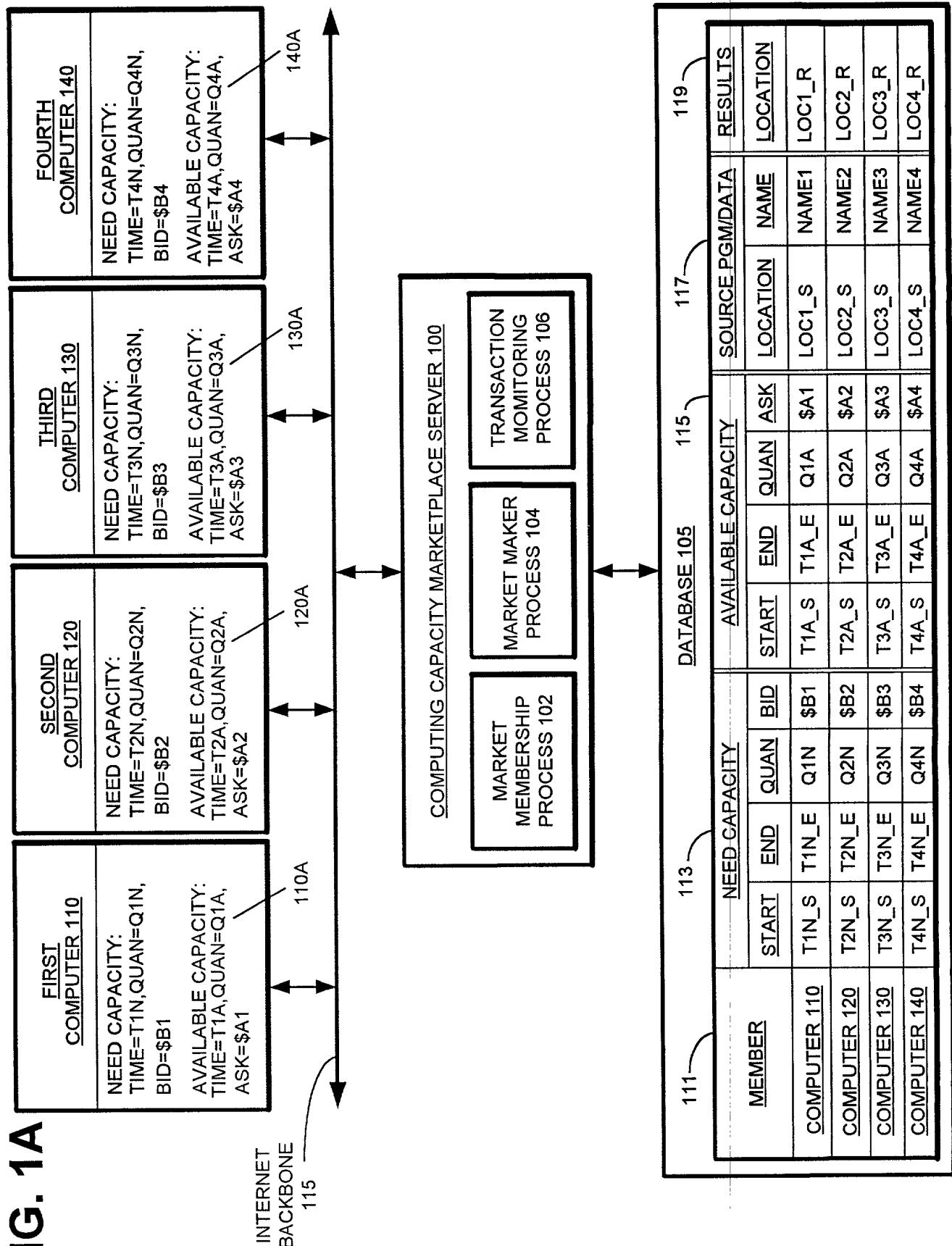
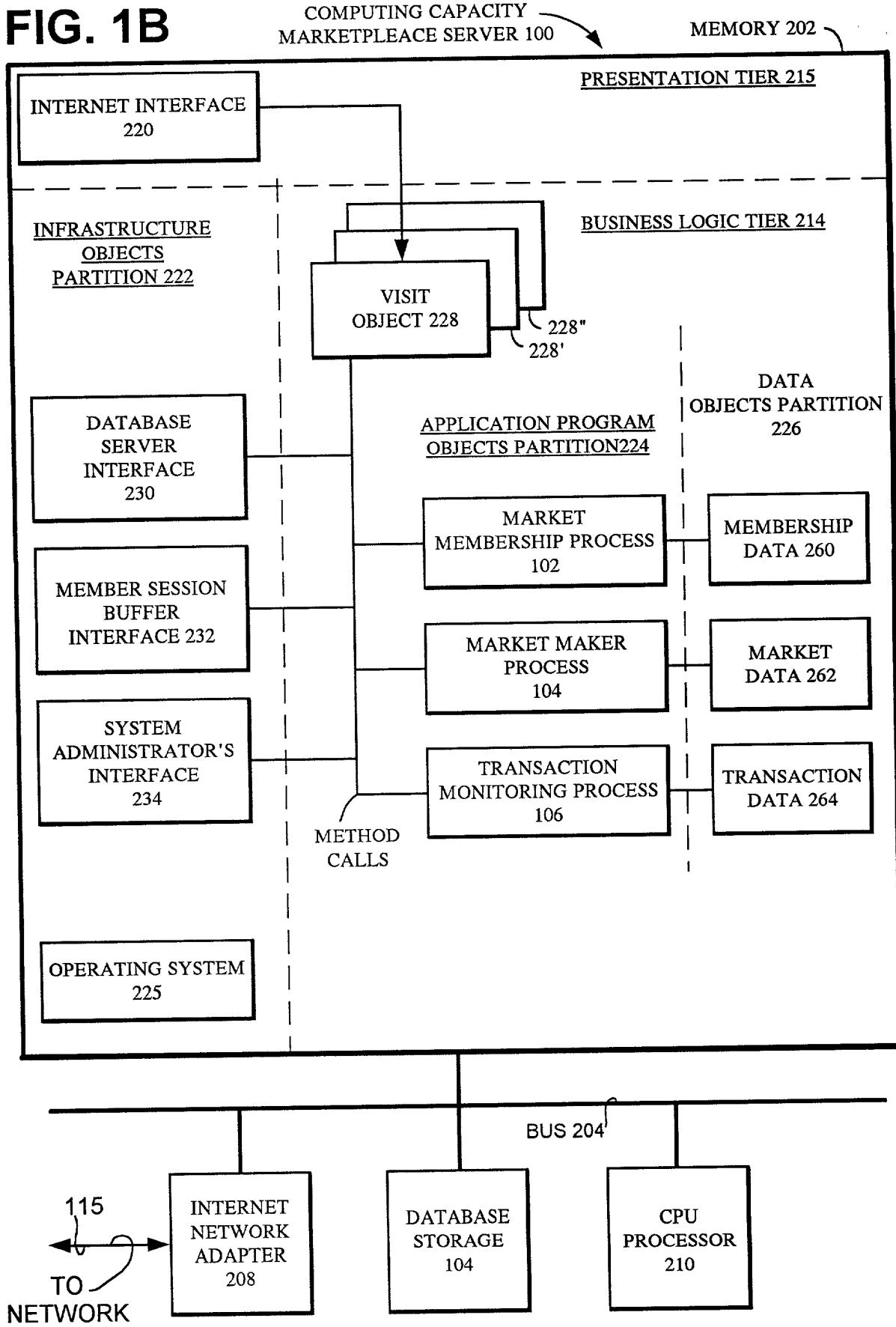


FIG. 1B



300

STEP 302: PROVIDING MEMBERSHIP STATUS IN THE COMPUTING CAPACITY MARKETPLACE SERVER FOR A PLURALITY OF MEMBER COMPUTERS IN THE NETWORK

STEP 304: RECEIVING IN THE COMPUTING CAPACITY MARKETPLACE SERVER AN INDICATION OF NEEDED COMPUTING CAPACITY, INCLUDING A BID AMOUNT, FOR A BUYING COMPUTER OF A PLURALITY OF COMPUTERS IN THE NETWORK

STEP 306: RECEIVING IN THE COMPUTING CAPACITY MARKETPLACE SERVER AN INDICATION OF AVAILABLE EXCESS COMPUTING CAPACITY, INCLUDING AN ASK AMOUNT, FOR A SELLING COMPUTER OF A PLURALITY OF COMPUTERS IN THE NETWORK

STEP 308: MATCHING IN THE COMPUTING CAPACITY MARKETPLACE SERVER THE BUYING COMPUTER'S BID AMOUNT WITH THE SELLING COMPUTER'S ASK AMOUNT

STEP 310: ENABLING THE SELLING COMPUTER TO PROVIDE AT LEAST A PORTION OF THE AVAILABLE EXCESS COMPUTING CAPACITY TO THE BUYING COMPUTER IN RESPONSE TO THE MATCHING STEP

FIG. 2

STEP 322: PROVIDING MEMBERSHIP STATUS IN THE COMPUTING CAPACITY MARKETPLACE SERVER FOR A PLURALITY OF MEMBER COMPUTERS IN THE NETWORK

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STEP 324: RECEIVING IN THE COMPUTING CAPACITY MARKETPLACE SERVER AN INDICATION OF IMMEDIATELY AVAILABLE COMPUTING CAPACITY, INCLUDING AN ASK AMOUNT, FOR A SELLING COMPUTER OF THE PLURALITY OF COMPUTERS

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STEP 326: RECEIVING IN THE COMPUTING CAPACITY MARKETPLACE SERVER AN INDICATION OF IMMEDIATELY NEEDED COMPUTING CAPACITY, INCLUDING A BID AMOUNT, FOR A BUYING COMPUTER OF A PLURALITY OF COMPUTERS IN THE NETWORK

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STEP 328: MATCHING IN THE COMPUTING CAPACITY MARKETPLACE SERVER THE BUYING COMPUTER'S BID AMOUNT WITH THE SELLING COMPUTER'S ASK AMOUNT

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STEP 330: ENABLING THE SELLING COMPUTER TO PROVIDE AT LEAST A PORTION OF THE AVAILABLE EXCESS COMPUTING CAPACITY TO THE BUYING COMPUTER IN RESPONSE TO THE MATCHING STEP

FIG. 3

STEP 342: MATCHING IN THE COMPUTER CAPACITY MARKETPLACE SERVER THE BUYING COMPUTER'S BID AMOUNT WITH THE SELLING COMPUTER'S ASK AMOUNT

STEP 344: IDENTIFYING ALL SELLERS WHO HAVE AVAILABLE EXCESS COMPUTING CAPACITY DURING THE ENTIRE PERIOD THAT THE BUYER HAS IDENTIFIED AS NEEDING COMPUTING CAPACITY

STEP 346: SELECTING THE SELLER HAVING THE LOWEST ASK AMOUNT

STEP 348: IF THE BUYER'S BID AMOUNT IS GREATER THAN OR EQUAL TO THE SELECTED SELLER'S ASK AMOUNT, THEN IDENTIFYING THE BUYER AND SELECTED SELLER AS MATCHED

STEP 350: IF THE BUYER'S BID AMOUNT IS LESS THAN THE SELECTED SELLER'S ASK AMOUNT, THEN IDENTIFYING THE BUYER AS A NEGOTIATING BUYER AND THE SELECTED SELLER AS A NEGOTIATING SELLER

STEP 352: SIGNALING THE NEGOTIATING BUYER THAT A NEGOTIATING SELLER HAS BEEN FOUND, SIGNALING THE NEGOTIATING SELLER THAT A NEGOTIATING BUYER HAS BEEN FOUND, AND MONITORING NEGOTIATIONS BETWEEN THE NEGOTIATING BUYER AND THE NEGOTIATING SELLER

STEP 354: IF THE NEGOTIATING BUYER AND THE NEGOTIATING SELLER CHANGE EITHER OR BOTH THE BID AMOUNT AND THE ASK AMOUNT SO THAT THE AMOUNTS MATCH, THEN IDENTIFYING THE NEGOTIATING BUYER AND THE NEGOTIATING SELLER ARE MATCHED

STEP 356: REDUCING THE MAGNITUDE OF THE QUANTITY OF AVAILABLE EXCESS COMPUTING CAPACITY FROM THE SELLER, AS INDICATED IN THE DATABASE 105, BY THE AMOUNT OF COMPUTING CAPACITY PROVIDED BY THE SELLER TO THE BUYER

STEP 358: IF THE AMOUNT OF THE COMPUTING CAPACITY PROVIDED BY THE SELLER TO THE BUYER IS LESS THAN THE QUANTITY OF NEEDED CAPACITY BY THE BUYER, AS INDICATED IN DATABASE 105, THEN REPEATING STEPS 342 TO 356

FIG. 4

360

Step 344: IDENTIFYING ALL SELLERS AND BUYERS HAVING MATCHED CAPACITIES AND TIMES

STEP 362: ARE THERE MORE BUYERS THAN SELLERS

Yes

STEP 364: SELLERS ARE MATCHED TO BUYERS WITH HIGHEST BID AMOUNT

EQUAL

STEP 308 OR STEP 328

No

STEP 366: BUYERS ARE MATCHED TO SELLERS WITH LOWEST ASK AMOUNT

STEP 310 OR STEP 330

FIG. 5